

THE ANALYSIS OF E-BOOK QUALITY

A THESIS

**Submitted as A Partial Fulfillment of Requirements for
The Attainment of A *Sarjana* Degree in Informatics Engineering Education**



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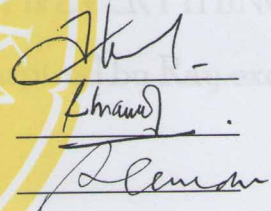
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MOTTO

*Real battle for success. Nothing is impossible.
Everything is possible, if you believe in God.
(Reza M Syarif)*

to love someone is nothing
to be loved by someone is something
to be loved by someone we love is exciting
but, to be loved by ALLOH SWT is EVERYTHING
(inspired by Ray.exe)

Good books are more valuable than fine clothes.
First Deserve and then Desire.
Study your present condition and know your weakness if
you want to be strong.
(astri yuk mari)

DEDICATION

This thesis, dedicated for :

My God, ALLOH SWT (ARROSYIID)

BABE Suri and EMAK Sawi, my beloved parents,

My older sisters and my older brothers (Asmisih, Agus Umbarno,

Bambang Suroso and Sulami). My Nieces and Nephews (Galuh, Bitu,

Tufa, Gadis).

ALL of My Friends and Family in the World



ABSTRACT

THE ANALYSIS OF E-BOOK QUALITY

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The integration of technology at learning process at *SMK N 1 Sedayu* quite less. The purpose of this research was to analysis the E-book quality. In this research the researcher analyze the E-book feasibility of E-book. The feasibility aspects were *Availability, Customization Display, Portability* and *Usability*.

The research was using descriptive quantitative method according to theories of E-book standard quality. The analysis of E-book passed through: (1)Implementation of E-book and (2)Analysis of E-book. This research was held from December 5th up to December 17th 2011. The data were collected in SMK Negeri 1 Sedayu. The respondents were 30 students from grade X of Computer and Network Engineering. Data collection for *Usability* used questionnaire with a 5 scale answer.

The result of interpretation from quantitative value was then converted into qualitative description value. The average score of students interpretation was 3.91 and this E-book was a Good E-book.

Keyword: *E-book, E-book standard quality*

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Yogyakarta, January 2012

Writer,

Astri Yuliani

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CHAPTER I

INTRODUCTION

A. Background

Nowadays, the development of technology and science encourages people to be able to respond and provide feedback to the developments. It is unethical if human just shut the place and sit on our hands; human must have the ability to respond to the changes. The ability to understand the development of science and technology requires an intermediary medium in the field of education.

Teachers should be able to integrate technology into the learning process at school. Based on the observations at *SMK Negeri 1 Sedayu* (GradeTen/ X, competency skills of Computer Network Engineering) the integration of technology in the learning process was not maximum yet. Due to the information age, human are expected to follow the changes for example using an appropriate technology which is up to date. E-book is one thing that becomes an example of technological development. The E-book should be supported with electronic devices such as computers, laptops, PDAs and software that is compatible with the E-book.

The use of E-book is not maximum among teachers and students yet. Students didn't know the limitation of subject matter computer skill and information management course quite well. Only some teachers develop the material of computer skill and information management

course. With the considerations above, it is necessary to analysis the quality of E-book.

B. Identification of The Problems

According to the description of background, the researcher identified some problems as follows

1. The integration of technology of technology in vocational high school quite less.
2. Students do not know the limitations of subject matter computer skill and information management course quite well.
3. Not many vocational high school teachers develop subject matter computer skill and information management course.
4. Ebook here has not been developed based on the E-book quality standards.

C. Limitation of The Problems

Based on the identification of problems, the researcher decided to analysis of E-book quality. It was analyze the E-book quality based on the theories of E-book standard quality.

D. Formulation of The Problems

According to the limitation of the problem mentioned above, the problems in the study of this development can be formulated as

1. How is the implementation of the E-book?
2. How is the E-book quality?

E. Objectives of Research

Based on the formulation of the problem which has been described above in accordance with the principal issues to be discussed, the objectives are

1. The implementation of the E-book
2. The E-book quality.

F. Benefits of Research

1. Practical Benefits

- a. Getting result of a decent E-book design to support learning in the computer skill and information management course for vocational high school.
- b. Producing E-book following the standard quality of E-book.

2. Theoretical Benefits

- a. This research becomes the study or reference materials for students at Yogyakarta State University and can be used as research material for further research.
- b. It increase the study references.

CHAPTER II

Theoretical Review and Conceptual Framework

A. Theoretical Review

1. E-book

E-book is a term used to describe a text analogous to a book that is in digital form to be displayed on a computer according to Cox and Mohammed, as quoted by Lee in the research of Anuradha (2005). Anuradha (2005) also describes that E-book is a very good device for teacher and student (in education case) with low hand dexterity. Looney (2001) describes that E-book is a device specialized for displaying electronic reading material or software designed to display such material.

Jan O. Borchers (1999) describes that an electronic book is a portable hardware and software system that can display large quantities of readable textual information to the user and that lets the user navigate through this information. Kumar (2009) describes that E-book is a digital medium for communication of information, E-book is an example of new developments involved from conception to a reality with more to come.

E-books can be defined as “any piece of electronic text regardless of size or composition, excluding journal publications, made available electronically or optically, for any device, hand-held or desk-bound that include a screen” Dinkelman, 2007 quoted by Jenkins (2008).

Armstrong (2008) describes that E-book is a handheld electronic device on which the text of a book can be read. Available in an electronic format for reading, such : on a computer screen (available only) and on the internet. The meaning of E-book by Birgit Lemken as quoted by Wilson R. (2003) is a mobile, physical device to display electronic documents.

According to the description above, the researcher assumes that E-book is an application software that contains information. Available in the internet and printed on demand. It needs such kind of hardware to read an E-book. It should be user friendly when it is used by everyone.

2. E-book Quality

The design of electronic books is important in teaching materials in the light of student use. Messing (1995), in his paper, reports some reactions from studies that have been conducted. They are

- a. Readability, the readability of computer screen and the desirability of more subjects using the electronic medium.
- b. Demarcation and annotation are key ingredients in making electronic study books are desirable alternative to printed books.
- c. Convenient Access, the evaluating like effectiveness of using electronics books conclude that 'making life easier' is one of benefit convenient access.
- d. Integration of Resources, this appears to be an excellent use of technology.

- e. Traditional Learning Techniques, multimedia learning resources provide students with a faster and easier access.
- f. Production issues, do look at the production of electronics books but only from point of view of creating a semi-automatic 'book builder'.

In terms of usability of users or readers, this point often gives advantages for E-book. We can make it as one of the parameters to know an E-book is proper to use. According to Borchers (1999)

- a. Availability, the E-book is available and there are no more problems with library and bookshop opening hours.
- b. Searching, it is easy to find keyword.
- c. Customization, it is possible for users to change display brightness font size & style.
- d. Portability, carrying additional titles does not mean additional weight.
- e. Multimedia, they include audio and video as well as arbitrary extension with external applications can enhance an electronic book in an integrated way of impossibility for printed version.
- f. Environment, E-books require less environmental resources.

Tonkin (2010) investigates E-books and takes a look at recent technology. Design choices include the following aspects:

- a. Processor Speed

The processor speed influences document access and rendering, relatively processor-intensive.

b. Screen effective and levels of grayscale

Some screens offer eight shades of grey while others offer 16.

c. Operating System (OS)

Operating system and opportunity for software installation and customization are further aspects.

d. On board memory and Expansion Capability

The amount of on board memory influences the number of E-books that can be stored. Expansion capability determines in particular the availability of a memory card slot.

e. Audio, capabilities may be added

f. Device input and output

The most basic device provides only a mechanism for moving forwards and backwards in the book, turning to an index and selecting items.

g. E-book availability and transfer mechanism

A few devices tie directly into distribution networks.

According to Snowhill (2001), outlines issues and recommendations for making E-books viable over the long term in the academic environment. They are

a. Content

E-book content should match any print version and include all its elements: text, graph and illustration.

b. Software and hardware standards and protocols

Use current formats for example (HTML, XML or PDF). A variety of devices are being developed to replicate some of the virtues of printed monographs, including portability and network-independences, so that E-books themselves will function on variety platforms.

c. Digital right management

DRM systems are either hardware or software (or both) that enforces control over intellectual property, such as limit by user, time, fee and or extent of content.

d. Access

Issues of access include user awareness and the ability to accommodate simultaneous users.

e. Archiving and long term access

Two of the roles of academic libraries are building research level collections and acting as archives research information.

f. Privacy

Users should not have to create individual accounts, but should access and check out E-books.

g. The market and Pricing

Print on demand and one-times purchase of title with premium for perpetual access.

h. Enhancement and Ideal Features.

The functionality may be as varied as inclusion of multimedia information, full text searching, mark-up, citation formatting, reference linking, convenience, portability, interoperability on variety devices, availability in advance of print, advantages pricing and the ability to share or loan information.

In delivery mechanism : (1)E-book can be read on desktop, laptop, handheld or specialist form (E-book reader/ device), (2)The use of internet, (3)E-book can also delivered on diskette, CD-ROM and memory card as well as over mobile telephone networks (Armstrong : 2008).

In the sub chapter of reading from screen, basic ergonomic issues like flicker, image polarity and anti-aliasing made the way to improve today's display (Lemken : 1999).

According to Kumar (2009), E-books are technology based books which require hardware, software and a screen for display. (1)E-book hardware: the use a monitor, LCD or touch screen device as screen. (2)E-book reader software : function such as search, user define text size, color/ greyscale display, network connection, read only content, hyperlink and range of platforms. (3)E-book creating software.

E-book provides equal access to learning materials to both campus-based and distance-learning students, such : availability and access of E-

book, customization display, portability, integration multimedia, distribute via internet (Kumar, 2009).

Armstrong (2008) describes the use of value-added features on E-book for resource links, review links, editorial/feedback, author links, education literature, links for journals, author biographics, companion website, simulation/animation, exercises/questions, links to employments sites. Electronics textbook design guidelines emerge with respect to the use of structural element inherited from the paper medium, such as table of contents and indexes, the provision of content summaries to enable scanning, the use of colour and images to break the flow text and implementing multimedia and interactive elements to engage users.

Wilson (2003) describes that quality standards of E-book are (1)Functionalities of the software reader such as searching, bookmarking and annotating. (2)Portability- student could access large amounts of material “anytime, anywhere”. According to Connaway (2007) Attractive features of E-books, 24/7 availability and the development and distribution of E-books, therefore libraries must support multiple formats, software, hardware and acquisition, purchasing and usage models.

From all of theories above, the researcher assumed that the quality standards of E-book are

1. *Availability*: (a) On the internet, (b) Print on demand
2. *Customization Display*: (a) Text, (b) Images or illustration, (c) Text searching, (d) Links (sources)

3. *Portability*: (a) Handheld : mobile/PC /Laptop, (b) On Board memory, (c) Device input/output, (d) Operating System
4. *Usability*: Instrument using Computer System Usability Questionnaire by Lewis, 1995.

B. Relevant Research

Anuradha (2005), in “Use of E-books in an Academic and Research Environment : a Case Study from the Indian Institute of Science”. The purpose of this study is to investigate the use and usability of E-books from user’s perspectives in an academic and research environment.

Armstrong (2008), in “Books in a virtual world : The evolution of the e-book and its lexicon. Journal of Librarianship an Information Science” the article looks at both the genesis of E-books and the stage of acceptance and adaption that they have reached, with brief reference to third-generation E-book readers available at the time of writing.

Chong (2008), in “E-book design preferences : A case study” the purpose of this study is to investigate the student’s preferences on page and content design of E-books.

Dinkelman (2007), In “Accessing E-Books Trough Academic Library Website” examines access to electronic books as provided on the web sites of academic libraries in the Assosiation of Research Lbibrary (ARL)

Jenkins (2008), in “What is inhibiting the Proliferation of E-books in academic Library?” concludes that it is indubitable that E-books will eventually play an integral role within academic libraries.

Kumar (2009), in “E-books : Reader, Librarians an Publisher Perspective”, recognizes his paper with various types of E-books available and discusses various issues such as the technology required, standardization, licensing and pricing.

Letchumanan (2011), in “Assesing the intention to use E-book among engineering undergraduates in Universiti Putra Malaysia, Malaysia” Investigates the intention of using E-books as learning material among undergraduates from an engineering department by using the technology acceptance model (TAM) and gender as its external variable.

On Armstrong (2008) “Books in a virtual world: The evolution of the e-book and its lexicon. Journal of Librarianship an Information Science”, Alan Kay (2005) describes that the concept on an E-book was born of the need to overcome the limitation of papers.

Roesnita (2005), In “The Pattern of E-book Use Amongst Undergraduates in Malaysia: A Case of to Know is to Use” this exploratory study focuses on identifying the usage pattern of E-books especially how, when, where and why undergraduates at the Faculty of Computer Science and Information Technology (FCSIT), University of Malaya (UM), Kuala Lumpur use or do not use the E-books service provide by the University of Malaya Library.

Tonkin (2010) in “E-books: Tipping or Vanishing Point?” investigates E-book and takes a look at recent technological and business developments.

Whalley (2006) in “E-books for the Future: Here but Hiding?” outlines some developments in E-book technologies and links them to existing ways of presenting textbook information.

C. Conceptual Framework

The development of technology and science in today's information era, encourages people to be able to respond and provide feedback to all these developments. Computer skills and management of information are the media to keep up the development of technology, especially for members of the vocational high schools. The integration of technology at grade X for competency skills Computer Network Engineering is not maximum yet.

Electronic Book (E-book) is one technology that is developed at this time to increase the integration of technology in vocational high schools. The analysis of E-book must be appropriate with the quality standard of E-book.

The research was using descriptive quantitative method according to theories of E-book standard quality. The research procedures was implementing and analysis the E-book. Product form of E-books that have been produced according to the theory that acquired *Availability, Customization Display, Portability and Usability* is appropriate to the study

of theory/ expert judgment with heuristic method to find that there are errors, then tested to the user.

Once tested and obtained the research results and conclusions made related reports analysis of E-book quality.

D. Research Hypothesis

Based on the theoretical review and conceptual framework, then the hypothesis in this study is formulated as follows:

H0: The E-book fulfills the criteria (*Availability , Customization Display, Portability and Usability*) is suitable to use.

H1: The E-book does not fulfills the criteria (*Availability , Customization Display, Portability and Usability*) is not suitable to use.

CHAPTER III

RESEARCH METHODOLOGY

A. Research Design

1. Research Methods

According to Sugiyono (2011: 2) A research method is basically a scientific way to get the data with a specific purpose and usefulness. The research was using descriptive quantitative method according to theories of E-book standard quality. Based on conceptual framework, the steps of this research study are implementing the E-book and analysis the E-book.

2. Object Research

Understanding of the object of the research in general was a problem of the topic of writing in order to compile a report. This study was conducted to obtain data related to the object of research (Ajiyati, 2011). The object was examined in this study was quality of E-book.

3. Location and Time Research

a. Location of Research

The study was conducted at *SMK N 1 Sedayu, Jl. Pos Kemusuk Argomulyo, Bantul, Yogyakarta*, particularly in grade X of computer network engineering class.

b. Research time

This study was planned in the 2011/ 2012 academic year (December, 2011).

4. Respondents Research

According to Arikunto (2007:88) research respondent is a person who can respond to, provide information about the research data. Respondents in this study were 30 students of grade X of computer network engineering of *SMK Negeri 1 Sedayu*. Thirty people are called small sample (Arikunto, 2007:94).

5. Research Procedures

The research procedures to be performed based on the research method are

1) Implementation of E-book

The researcher implementing E-book using *Abee CHM Maker* because this application software was easier than other E-book maker. This software must be installed in our laptop/ PC, then the software is opened and add files are added into the chm maker. The matter is written in *Microsoft Office Word* and then saved in web page format so it can opened in chm maker.

2) Analysis of the E-book

The next step after the implementation of E-book was testing the E-book by a heuristic judgement. The E-book tested according to existing theories by researcher for *Availability*,

Customization Display and Portability. Finally testing the *Usability* of E-book using questionnaire.

B. Operational Definition of Research Variables

Research variables are basically everything that shaped what is defined by researchers to be studied in order to obtain information about them and then a conclusion (Sugiyono, 2011:38). Variable or object investigated in this study was the E-book quality. There were any criteria of the theories about the E-book quality. The researcher used the sub variable *Availability, Display Customization, Portability and Usability* as the standard criteria for quality of E-book in this research.

C. Data Collection Techniques

Data collection technique is the technique chosen by the researcher in collecting the necessary data. This study used multiple data collection techniques:

1. Interview

The researchers conducted interviews to obtain the data of the needs of the E-book. According to Sugiyono (2011: 137) interview is used as data collection technique if researchers want to conduct a preliminary study to find a problem that must be investigated and if researchers want to know the things of the respondents are more in-depth and number of respondents are little/ small.

The researcher used the free guided interview method, according to Arikunto in Ajiyati (2011:53) that in conducting the interview, the interviewer brings the guidelines that are only an outline of the things that will be requested.

2. Questionnaire

According to Sugiyono (2011:142) questionnaire is a data collection technique done by giving a set of questions or a written statement to the respondent to answer. Type of questions used researcher is a closed question, ie questions that expect an answer brief or expect respondents to choose one alternative answer to the question that has been available. The questionnaire in the form of a checklist was used to test the implementation of E-book quality.

D. Research instruments

1. Research instruments

According to Arikunto (2007:164) in general, there are two types of instruments. They are instruments prepared by the researcher, and the second type is an instrument that has been standardized (*standardized*). Research instrument is an invaluable tool for researchers in collecting data. In general, the preparation of data collection instruments is carried by the following steps (Arikunto, 2007: 134-135):

- a. Conducting the identification of variables that exist in the formulation of the research or the title listed on the problems of the research.
- b. Describing the variables into a sub or a variable part.

- c. Finding indicators for each sub or the variable.
- d. Arrange descriptors of each indicator.
- e. Formulating each descriptor to become the instrument items.
- f. Completing the instrument with the guidelines or instructions and foreword.

Instruments used in this study are

a. Interview Guidelines

The interviews conducted in this study are free guided interview and thus required an interview guide in the outline. Based on a course module on Software Engineering by Restyandito quoted by Ajiyati (2011: 54-55), the questions in an interview with the customer to identify the needs of the software include:

- 1) The first question (identifying *stakeholders*)
 - a) Who would want a system/ program?
 - b) Who will use solution?
 - c) What are the economic benefits of a successful solution?
- 2) Questions to understand the problem
 - a) What are the characteristics of a good solution?
 - b) What problems are solved by the solution?
 - c) What is the condition of environment in which the solution is implemented?
 - d) Are there any performance issues and constraints that affect a particular solution approach?

Interview guides that researchers use in this study adopt the form of a questionnaire with a list of questions stated by Restyandito in Ajiyati (2011: 55) in outline as follows,

Table 1. Interview Guidelines

No	Aspect	Question
1.	Initial Data Assumptions	a. How do schools integrate technology, case of E-book? b. Are there constraints faced by schools in integrating technology, case of E-book?
2.	Identification of Stakeholders	a. Who would want aE-book? b. Who uses E-book? c. What advantage is gained by procuring E-book?
3.	Identification System Requirements	a. Does the school require the integration of technology E-book as a medium? b. How the design of system? c. Is there a limit to the E-book made?

The results of interview with one teacher of computer skill and information management course is presented in the appendix.

2. Questionnaire

Questionnaires are a number of written questions used to obtain information from respondents. The variable of questionnaire in this research based on description of theories. The indicators describe for testing the E-book to the appropriate of implementation. E-book contains a checklist statement of appropriate quality assessment theory E-book shown as Table 2.

Table 2. Questionnaire for the design E-book

Variable	Indikator or Statement	Present or No	Comment
1. Availability	a. On the internet		
	b. Print on demand		
2. Customization Display	a. Text		
	b. Images or illustration		
	c. Text searching		
	d. Links (author/sources)		
3. Portability	a. Handheld/ mobile/ PC/ Laptop		
	b. On Board memory		
	c. Device input/output		
	d. Operating System		

The feasibility of E-book questionnaires were filled by the user and set forth in the *checklist* with a *Likert scale*. Questionnaire for *Usability* E-book (Lewis, 1995) shown as table 3.

Table 3. Questionnaire for *Usability* E-book

No.	Statement	Point
1.	Overall I am satisfied that this E-book is easy to use	1 2 3 4 5
2.	Simple to use this E-book	1 2 3 4 5
3.	By using this E-book, I can finish my job effectively	1 2 3 4 5
4.	By using this E-book, I can complete my tasks quickly	1 2 3 4 5
5.	By using this E-book, I can complete my task efficiently	1 2 3 4 5
6.	I feel comfortable using this E-book	1 2 3 4 5
7.	Easy to learn by using this E-book	1 2 3 4 5
8.	By using this E-book, I became more productive	1 2 3 4 5
9.	This E-book gives "Error Message" clear, and help me fix the "error" of existing	1 2 3 4 5
10.	Every time I make a mistake using the E-book, I can learn easily and quickly	1 2 3 4 5
11.	Information (such as online help, messages on the screen, and other documentation) This E-book is provided with clear	1 2 3 4 5
12.	It's easy to find the information I need	1 2 3 4 5
13.	The information provided is easy to understand E-book	1 2 3 4 5
14.	The information in this E-book is very effective in helping me complete the task.	1 2 3 4 5

15. Organizing information in the "Screen" E-book clear	1	2	3	4	5
16. "Interface" This E-book is fun	1	2	3	4	5
17. I like to use "Interface" from this E-book	1	2	3	4	5
18. This E-book has all the functions and capabilities, I hope to have this E-book	1	2	3	4	5
19. Overall, I am satisfied with this E-book	1	2	3	4	5

Description questionnaire :

1 = Strongly Disagree

2 = Disagree

3 = Neutral

4 = Agree

5 = Strongly Agree

2. Research instrument test

a. Validity Instruments

A valid instrument means a measuring tool used to obtain data that are valid. Valid means the instruments can be used to measure what should be measured.

Thoha (2003 : 109-110) states that a measuring instrument is said to have validity if its content is appropriate measuring tools to measure objects that should be measured and in accordance with certain criteria.

The validity of this research instrument was tested from variable design E-book (*Availability, Display Customization* and *Portability*) and feasibility E-book (*Usability*). Usability in terms of

the instruments which was used was valid because the researchers used a questionnaire derived from the international journal for human interaction and computer-written by Lewis (1995). In terms of *Availability*, *Customization Display* and *Portability* each point of indicators need to be tested using Heuristic Judgement, matched the implementation of E-book with the existing theory by E-book maker.

b. Instrument Reliability

According to Susan Stainback (1988) in Sugiyono (2011:267), Reliability is often defined as the consistency and stability of the data or findings. From a positivistic perspective, reliability is typically considered to be synonymous with the consistency of the data produced by observations made by different researchers (eg. interrater reliability), by the same researcher at different times (eg. test retest) or by splitting a data set in two parts".

The instrument is a reliable instrument when used several times to measure the same object, will produce the same data (Sugiyono, 2011:121). This point was used by the researcher to test the reliability of *Availability*, *Display Customization* and *Portability* E-book.

“For the instruments that can be given score and the score is not 1 and 0, the tests can be done with the technique of one shot,

just given one time only then the results analyze with the alfa formula (Arikunto, 2007: 180)”.

The *Alfa Cronbach* formula shown as

$$r = \frac{k}{k-1} \left(1 - \frac{\sigma_b^2}{\sigma_1^2} \right)$$

The annotation :

r = The reliability of instrument
 k = The number of items or number of questions about
 σ_b^2 = numbers of item varians
 σ_1^2 = The total of varians

Below are interpretation for the value of correlation coefficient,

Table 4. Interpretation the alfa correlation coefficient.

Alfa coefficient	Reliability Level
0.800 – 1.000	Very High
0.600 – 0.799	High
0.400 – 0.599	Enough
0.200 – 0.399	Low
Less than 0.200	Very Low

The testing result of *Usability* instrument is 0.609 with N = 19 so the reliability level is High. The *Usability* Instrument for data collection was reliable to used.

E. Data Analysis Techniques

Sugiyono (2011:147) mentions that after the data were collected, including analysis of data from all respondents or other sources of data werecollected, this understanding of data analysis in quantitative research

was to know the criteria eligibility based on quality of E-book. Activities in the data analysis were: grouping data based on the variables and types of respondents, tabulating data based on the variable studied, doing the calculations to answer the formulation of the problem and taking measures to test the hypotheses that have been proposed.

The activities in the data analysis according to Nugraha (2005) in Ajiyati (2011) are

1. Data collection, all research data collected
2. Editing data, if there is no logical answer
3. Encoding the data, transforming data into numbers of questionnaires
4. Data processing,
 - a. Grouping data based on variables and data types, quantitative and qualitative (suggestion)
 - b. Tabulating data, the present *Usability* into the table.
 - c. Calculating the average quantitative

Arikunto (1999) in Ajiyati (2011) mentions that to know average scores and average scores overall.

$$\text{Average Score} = \frac{\text{Total score}}{\text{numbers of item}}$$

$$\text{Overall average score} = \frac{\text{overall total score}}{\text{overall numbers of item}}$$

- d. Convert the average value of quantitative data in qualitative

Here is a conversion table with the score into a value of 5, Sukardjo (2010) in Ajiyati (2011).

Table 5. Conversion table with the score into a value of 5

Interval Score	Value	Annotation
$x > M_1 + 1.80 SB_1$	A	Very Good
$M_1 + 0.60 SB_1 < x \leq M_1 + 1.80 SB_1$	B	Good
$M_1 - 0.60 SB_1 < x \leq M_1 + 0.60 SB_1$	C	Good Enough
$M_1 - 1.80 SB_1 < x \leq M_1 - 0.60 SB_1$	D	Poorly
$x \leq M_1 - 1.80 SB_1$	E	Is less well

Annotation :

M_1 = mean = $\frac{1}{2}$ (maximum score + minimum score)

SB_1 = standard deviation = $\frac{1}{6}$ (maximum score- minimum score)

x = average score the result of implementation

CHAPTER IV

FINDINGS AND DISCUSSION

A. FINDINGS

1. Implementation of E-book

In the process in making E-book, it was necessary to identify the needs of E-book. According to the result of interview with the teacher of computer skill and information management course, the researcher got the information about E-book specification which is needed by SMK N 1 Sedayu. Some materials of computer skill and information management for grade X has not been organized, which consists of several stand-alone files.

In order to improve the quality of teaching and learning process in technology-based vocational school, the researcher made the E-book according to the E-book quality standards. They are availability, customization display, portability and usability.

The needs are laptop or personal computer (PC) to make E-book, web browser to access to E-book availability, application software *Abee CHM Maker*, *Microsoft Office Word* to make E-book and USB flashdisk to save file.

In implementing of E-book by software, that is E-book chm maker. Below is the figure of implementation of design with button, tool bar, menu bar, text searching, links, index, content, information or matter and dialog box.

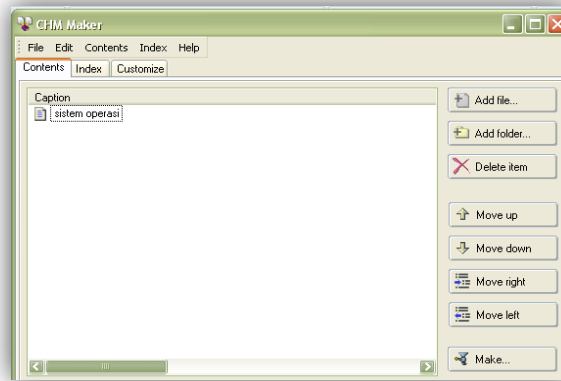


Figure1. The application of software to make an E-book.

The researcher implementing E-book using *Abee CHM Maker* because this application software was easier than other E-book maker. This software must be installed in our laptop/ PC, then the software is opened and add files are added into the chm maker. The matter is written in *Microsoft Office Word* and then saved in web page format so it can opened in chm maker. Below is the result of implementation of the E-book in .chm format :

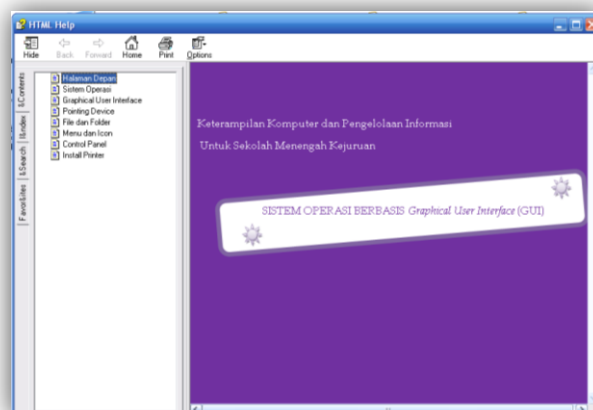


Figure 2. The result of E-book implementation

2. Analysis of E-book.

a. Availability

The E-book can be displayed on a computer and an electronic format. It should be online, offline and print on demand. There are no more problems with library and bookshop opening hours. Transfer mechanism can be copied on PC and download via internet.

1) On the internet.

Researcher posted the E-book on *Uniform Resource Locator* (URL).

Url :

- <http://www.bigupload.com/en/file/21904/sistem-operasi-berbasis-gui-untuk-smk-pada-kkpi.chm.html>
- http://www.4shared.com/file/HDvHLjAk/E-book_gui.html

below is the screenshot :

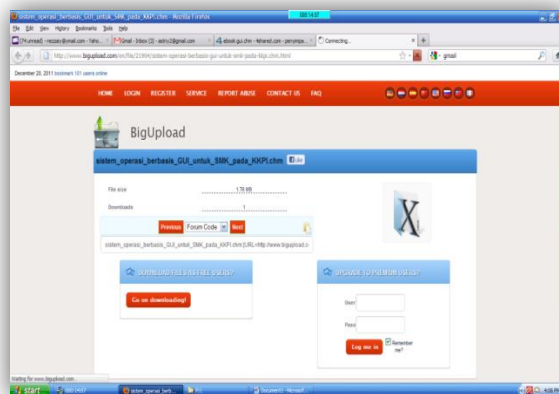


Figure 3. Screenshot E-book on the internet

2) Print on Demand.

The matter on E-book was available in advance of printing. Below, it is shown this E-book can be printed by user.

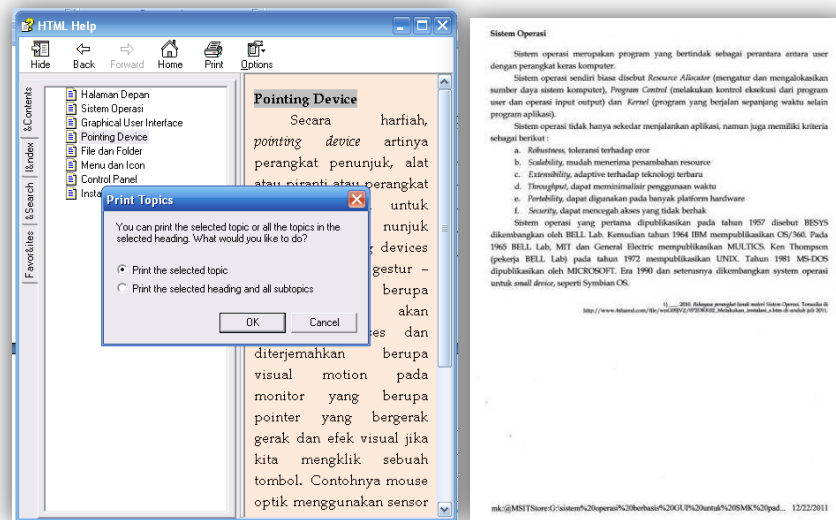


Figure 4 . Availability indicator (print on demand)

b. Customization Display

The customization display made the user feel comfortable when using the E-book. The E-book contains text, menu bar, toolbar and text searching. Links, source and images must be presented on an E-book. The components of customization display are shown below:

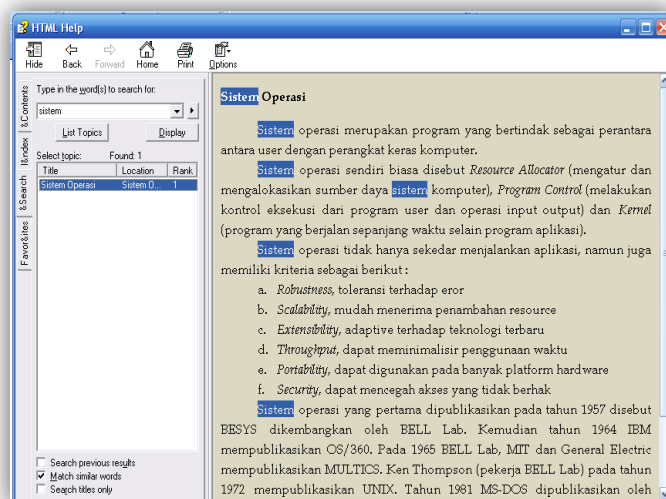


Figure 5. Customization display indicator (text searching)

c. Portability

- 1) Handheld : Mobile/ PC/ Laptop, the E-book was handheld, present on PC and Laptop by copying
- 2) On board memory, the expansion capability of processor, about the speed of opening the E-book. It was present in small size of file only 1.76 MB.
- 3) Device input/output, the E-book can be copied via USB/VCD so it should become input on PC or Laptop. Actually it will be shown on the screen.
- 4) Operating System, E-book can be used in Windows, Macintosh and Linux.



Figure 6. *Portability* indicator (Windows operating system)

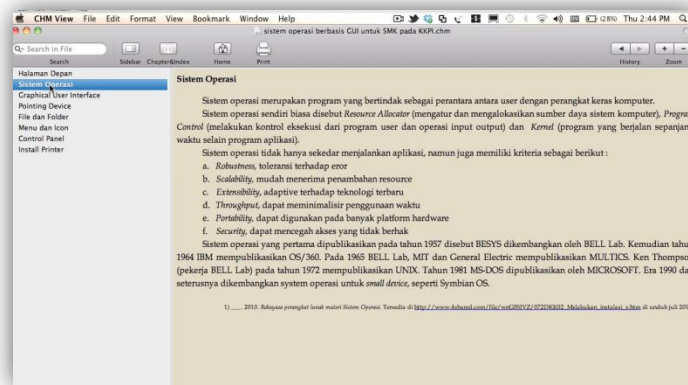


Figure 7. *Portability* indicator (Macintosh operating system)

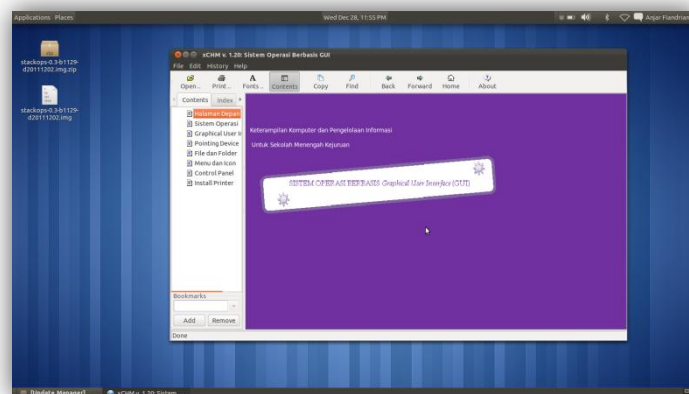


Figure 8. *Portability* indicator (Linux operating system)

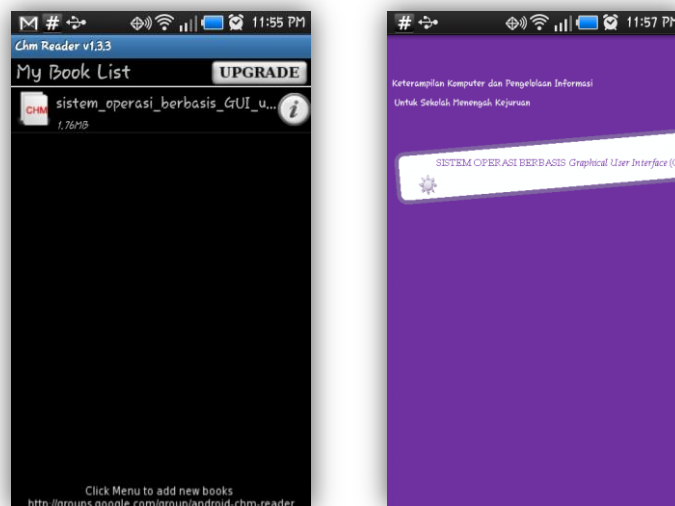


Figure 9. *Portability* indicator (E-book on Mobile)

Based on the result of E-book, the result is presented in the table below:

Tabel 6. Checklist for *Availability, Customization Display and Portability*.

Variable	Indikator or Statement	Present or No	Comment
1. Availability	a. On the internet	Present	-
	b. Print on demand	Present	-
2. Customization Display	a. Text	Present	-
	b. Images or illustration	Present	-
	c. Text searching	Present	-
	d. Links (sources)	Present	-
3. Portability	a. Handheld: mobile/ PC/ Laptop	Present	-
	b. On Board memory	Present	-
	c. Device input/output	Present	-
	d. Operating System	Present	-

d. Usability

The indicators of availability, customization display and portability were fulfilled. The last indicator of this research is usability. To determine whether the E-book can be used or not, it should be tried by user. In this research the users were students of vocational high school. The researcher used thirty samples to the level of usability of E-book.

The usability instruments were taken from the international journal for human interaction and computer-written by Lewis (1995). The number of questions are 19.

The purpose of this research was to determine the feasibility of E-book based on *Availability, Customization Display, Portability and Usability*

indicator. In developing E-book, the steps are analysis of needs, design and testing. The testing used heuristic judgements.

The research method in this research was *Descriptive Quantitative*. The research was held in SMK Sedayu with 30 respondents from grade X of Computer Network Engineering. The research was held from December 5th up to December 17th 2011. The data collection techniques were interview, checklist and questionnaire. The research instruments were interview guides and questionnaires. Data collection used *Likert scale*. The data analysis was quantitative descriptive analysis.

The result of thirty samples shown as table 7. The data were collecting after the students of the vocational high school was using the E-book.

Table 7. The result of interpretation students to the *Usability* E-book .

N o	Responden Name	Tot al	Mean	N o	Responden Name	Total	Mean
1	Aan Hisbullah	73	3.84	17	Olga Andi Saputra	75	3.95
2	Aditya Wahyu S.	79	4.16	18	Priyo Gunarto	68	3.58
3	Aldila Septiana	76	4.00	19	Ryan Galih A.	79	4.16
4	Andreas Setiawan	76	4.00	20	Shukhainah N.	73	3.84
5	Arfian A'an	71	3.74	21	Sri Lestari	79	4.16
6	Cherry Hutama	68	3.58	22	Stefanno Anandita	80	4.21
7	Dias Pijariafi	80	4.21	23	Stepanus Ari	68	3.58
8	Edwin Satrio	69	3.63	24	Tita Kusmawati	68	3.58
9	Esti Prihatin	74	3.89	25	Vita Wahyuning	75	3.95
10	Fadhillah Septiana	74	3.89	26	Widiyawanti	76	4.00
11	Fatma Rahmanto	69	3.63	27	Woro Hestningsih	70	3.68
12	Idha W.	76	4.00	28	Yoga Cahyanto	80	4.21
13	Ika Nur S.	70	3.68	29	Yosua A.	79	4.16
14	Indah Pratiwi	80	4.21	30	Yuli Marwanto	73	3.84
15	Kartika Oktaviani	77	4.05		Total	2226	117.16
16	Luthfi Ahmad K.	71	3.74		Mean	74.20	3.91

Those *Usability* data shown as figure 10, like below :

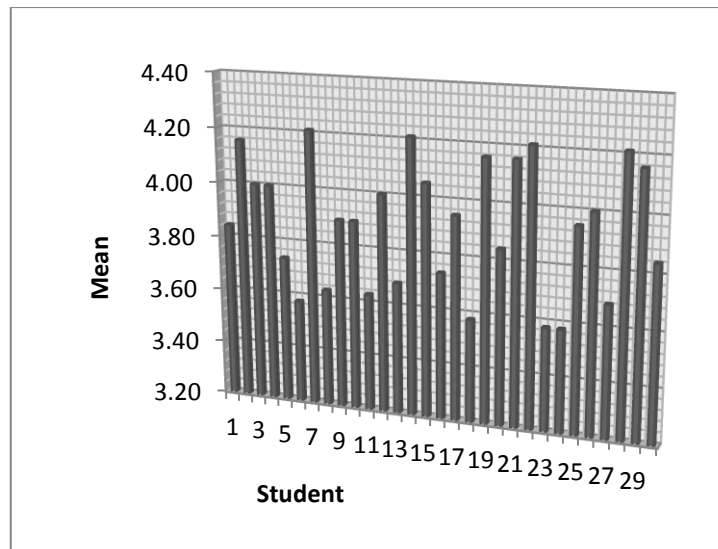


Figure 10. Trunk diagram of *Usability* E-book interpretation from student.

Based on the conversion of formula, we can make a table with content by changing quantitative data to qualitative data.

Table 8. Conversion table with the score into a value of 5 in numbering

Interval Skor	Value	Annotation
$x > 4.21$	A	Very Good
$3.40 < x \leq 4.21$	B	Good
$2.60 < x \leq 3.40$	C	Good Enough
$1.79 < x \leq 2.60$	D	Poorly
$x < 1.79$	E	Is less well

Explanation:

x = average score the result of implementation = 3.91

Maximum score = 5

Minimum score = 1

$$SB = \frac{1}{6} (5 - 1) = 0.67$$

$$M (\text{Mean}) = \frac{1}{2} (5 + 1) = 3$$

From the table above, the feasibility of E-book according to the indicators got average score value from student 3.91 and based on conversion interval value. So the E-book obviously was Good.

Based on the research hypothesis, the researcher concludes that E-book on computer skill and information management course is fulfills the criteria (*Availability , Customization Display, Portability and Usability*) and was suitable to use.

3. Hypothesis authentication

There are two hypothesis that propose by the reearcher. (1) Ho = The E-book fulfills the criteria (*Availability , Customization Display, Portability and Usability*) is suitable to use (2) H1 = The E-book does not fulfills the criteria (*Availability , Customization Display, Portability and Usability*) is not suitable to use.

In the variable of *Availability* indicator of on the internet and print or demand is fulfills. In the variable of *Customization Display* indicator of text, image or illustration, text searching and link (sources) is fullfills. In the variable of *Portabilty* indicator of handheld (Mobile, PC, Laptop), On board memory, device input/output and operating system is fulfills. In the variable of *Usability* the findings is good based on the average score.

So, based on the findings and discussion, the researcher conclude that the E-book template fulfills the criteria (*Availability, Customization Display, Portability and Usability*) is suitable to use.

B. DISCUSSION

“Digitizing Education A Primer on E-books”

The researcher discussed about this E-book research by comparing it with the points of view about E-book by Michael A. Looney and Mark Sheehan. Electronic reading materials -E-books- were real today and many elements of the vision were only months away. Digital learning content was about to overtake the education market place and change the way of we distribute and interact with information and ultimately, the way we learn.

E-book was either a device specialized for displaying electronic reading material. If the publisher or author allows it, E-book accessed by E-book reader software may be printed, loaned or given away to friends or colleagues.

The software may allow bookmark and annotate content, conduct quick searches and look up words in an integrated dictionary that can read words and phrases back to synthetic speech.

In the meantime, tens of millions of PCs, but especially windows and machintos laptops, make excellent E-book device through the use of free, downloadable software featuring tools for individualizing text-resolution preferences.

E-books (in the broad sense of electronic content) were ideal for the academic environment. A number of social and economic factors make E-books or digital content preferable to paper text -books and course materials- or at least highly desirable as adjuncts to these materials. E-books can enable daily, weekly, or monthly updates via the internet, eliminating out-of-date textbooks.

What Will Make E-books Successful in Education? Three major factors will be required to make E-books successful generally and also in higher education: content, accessibility and readability.

“E-Book on Computer Skill and Information Management Course for Vocational High School”

Computer skill and information management course is one of many course in the curriculum of vocational high school. The developments of technology become an indicator to adapt the matter in the learning process. In the school environment the students must proactive to support the learning process. However, the teachers always guide the students to overcome the problems they find in the learning process.

The research about E-book maybe one of the solutions for increasing learning media. On the other hand, this E-book must be developed. In the next research the researcher has a plan to create an E-book in other courses.

Teachers can expand the matter according to the syllabus. It makes the students more active in the learning process. The elements on E-book appearances also must be increased. The E-book fulfilled the standard quality of E-book, they were availability, customization display, portability and usability. In the next research, the indicators must be added. In the future, the E-book (in this research) can be expanded not only for vocational high schools. The E-book can be used in all of learning processes at school.

CHAPTER V

CONCLUSION AND SUGGESTION

A. CONCLUSION

Based on the result of research and discussion, it is concluded that

1. The researcher implementing E-book using *Abee CHM Maker* because this application software was easier than other E-book maker. This software installed in our laptop/ PC, then the software is opened and add files are added into the chm maker. The matter is written in *Microsoft Office Word* and then saved in web page format so it can opened in chm maker. Finally, the E-book save as .chm format.
2. (a) In the variable of *Availability* indicator of on the internet and print or demand is fulfills. (b) In the variable of *Customization Display* indicator of text, image or illustration, text searching and link (sources) is fullfills. (c) In the variable of *Portabilty* indicator of Handheld (Mobile, PC, Laptop), On board memory, device input/output and operaing system is fulfills. (d) In the variable of *Usability* the findings is good (3.91) based on the average score.

So, based on the findings and discussion, the researcher concluded that the E-book fulfills the criteria (*Availability, Customization Display, Portability and Usability*) is suitable to use.

B. LIMITATION OF RESEARCH

1. The research objects were *Availability*, *Customization Display*, *Portability* and *Usability*.
2. The respondents of research was thirty students.
3. The E-book was tested with heuristics judgement.

C. SUGGESTION

1. The indicator must be added for the next research.
2. The E-book should be compared with the other media.
3. The testing must be added, not only heuristics judgements.
4. The E-book got title “good”, it would be suggested to apply in schools.
5. The use of technology at school should be maximized.

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APPENDICES

The appendix of thesis consultant from Electronics Department



KEMENTERIAN PENDIDIKAN NASIONAL REPUBLIK INDONESIA
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FAKULTAS TEKNIK
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No. : 191/ELK/D-3/X/2011 Yogyakarta, 12 Oktober 2011

Hal : Kesediaan sebagai

1. Pembimbing Tugas Akhir Skripsi
2. Pembimbing Tugas Akhir - D3
3. Pembimbing Proyek Akhir-S1

Kepada : Yth. Bapak/Ibu Handaru Jati, Ph.D
Dosen Jurusan Pendidikan Teknik Elektronika
Fakultas Teknik UNY
Di Yogyakarta

Dengan ini kami mohon dengan hormat bantuan Bapak/Ibu untuk dapat menjadi pembimbing Tugas Akhir Skripsi-S1/Proyek Akhir/ Tugas Akhir D3 untuk :

Nama : ASTRI YULIANI No. Mhs. 08520244029
Jurusan : PENDIDIKAN TEKNIK ELEKTRONIKA
Program Studi : PENDIDIKAN TEKNIK INFORMATIKA

Atas bantuan dan kesediaan Bapak/Ibu diucapkan terima kasih.

Ketua Jurusan,
Masduki Zakaria, M.T
NIP. 19640917 198901 1001

Kepada : Yth Ketua Jurusan Pend. Teknik Elektronika
Fakultas Teknik UNY
Di Yogyakarta

Memenuhi surat Ketua Jurusan Pend. Teknik Elektronika No, 191/ELK/D-3/X/2011 Tanggal 12 Oktober 2011 bersama ini saya menyatakan tidak keberatan untuk menjadi pembimbing Tugas Akhir Skripsi S1/Proyek Akhir/Tugas Akhir D3 untuk :

Nama : ASTRI YULIANI No. Mhs. 08520244029
Jurusan : PENDIDIKAN TEKNIK ELEKTRONIKA
Program Studi : PENDIDIKAN TEKNIK INFORMATIKA

Demikian harap maklum.

Yogyakarta, 12 Oktober 2011
Yang menyatakan,
Handaru Jati, Ph.D
NIP 19740511 199303 1002

The appendix of thesis consultant from Lecturer Consultant



KEMENTERIAN PENDIDIKAN NASIONAL REPUBLIK INDONESIA
UNIVERSITAS NEGERI YOGYAKARTA

FAKULTAS TEKNIK

Alamat : Kampus Karangmalang, Yogyakarta, Telp. (0274) 586168 psw. 293

SURAT PERNYATAAN

PEMBIMBING TUGAS AKHIR SKRIPSI S1/PROYEK AKHIR / TUGAS AKHIR D3

Yang bertanda tangan dibawah ini :

Nama : Handaru Jati Ph.D
NIP : 19740511 199903 1002
Pangkat/gol : PENATA MUDA / IIIb
Jabatan : Asisten Ahli

Menyatakan bersedia ditunjuk sebagai pembimbing/ konsultasi dari mahasiswa tersebut dibawah ini.

Nama : Astri Yuliani No. Mhs. 08520244029
Jurusan : PEND. TEKNIK Elektronika Angkatan Th. 2008
Program Studi : Pendidikan Teknik Informatika

RENCANA JUDUL TUGAS AKHIR SKRIPSI / PROYEK AKHIR/TUGAS AKHIR

Analisis Kualitas E-book pada Matg Pelajaran
Keterampilan Komputer dan Pengelolaan Informasi
untuk Sekolah Menengah Kejuruan

Yogyakarta,

Yang membuat pernyataan

(Handaru Jati Ph.D)

NIP. 19740511 199903 1002

The appendix of thesis consultant from Engineering Faculty

**KEPUTUSAN DEKAN
FAKULTAS TEKNIK
UNIVERSITAS NEGERI YOGYAKARTA
NOMOR : 191/ELK/Q-1/X/2011
TENTANG
PENGANGKATAN PEMBIMBING TUGAS AKHIR SKRIPSI
BAGI MAHASISWA FAKULTAS TEKNIK UNIVERSITAS NEGERI YOGYAKARTA**

**DEKAN FAKULTAS TEKNIK
UNIVERSITAS NEGERI YOGYAKARTA**

Menimbang : 1. Bahwa sehubungan dengan telah dipenuhi syarat untuk penulisan Tugas Akhir Skripsi bagi mahasiswa Fakultas Teknik Universitas Negeri Yogyakarta, perlu diangkat pembimbing.
2. Bahwa untuk keperluan dimaksud perlu ditetapkan dengan Keputusan Dekan.

Mengingat : 1. Undang-undang Nomor 20 tahun 2003.
2. Peraturan Pemerintah RI Nomor 60 tahun 1999.
3. Keputusan Presiden RI: a. Nomor 93 tahun 1999; b. 305/M tahun 1999.
4. Keputusan Menteri Pendidikan dan Kebudayaan RI: Nomor 274/O/1999.
5. Keputusan Mendiknas RI Nomor 003/O/2001.
6. Keputusan Rektor UNY Nomor : 1160/UN34/KP/2011

MEMUTUSKAN

Menetapkan

Pertama : Mengangkat Pembimbing Tugas Akhir Skripsi bagi mahasiswa Fakultas Teknik Universitas Negeri Yogyakarta sebagai berikut :

Nama Pembimbing : Handaru Jati, Ph.D

Bagi mahasiswa :

Nama/No.Mahasiswa : Astri Yuliani / 08520244029

Jurusan/ Prodi : Pendidikan Teknik Elektronika / Pendidikan Teknik Informatika

Kedua : Dosen pembimbing disertai tugas membimbing penulisan Tugas Akhir Skripsi sesuai dengan Pedoman Tugas Akhir Skripsi.

Ketiga : Keputusan ini berlaku sejak ditetapkan

Keempat : Segala sesuatu akan diubah dan dibetulkan sebagaimana mestinya apabila di kemudian hari ternyata terdapat kekeliruan dalam Keputusan ini.

Ditetapkan : di Yogyakarta

Ditandatangani tanggal : 12 Oktober 2011






Moch. Bruri Triyono
NIP. 19560216 198603 1 003

Tembusan Yth :

1. Pembantu Dekan I, II, III FT UNY
2. Ketua Jurusan Pendidikan Teknik Elektronika
3. Ka Bag Tata Usaha FT UNY
4. Yang bersangkutan

The appendix of research license from Engineering Faculty

	KEMENTERIAN PENDIDIKAN NASIONAL UNIVERSITAS NEGERI YOGYAKARTA FAKULTAS TEKNIK <small>Alamat : Kampus Karangmalang, Yogyakarta, 55281 Telp. (0274) 586168 psw. 276,289,292 (0274) 586734 Fax. (0274) 586734 website : http://ft.uny.ac.id e-mail: ft@uny.ac.id ; teknik@uny.ac.id</small>	 <small>Certificate No. GSC 40590</small>										
<hr/>												
Nomor : 2684/UN34.15/PL/2011 Lamp. : 1 (satu) bendel Hal : Permohonan Ijin Penelitian		09 Nopember 2011										
<p>Yth.</p> <ol style="list-style-type: none"> 1. Gubernur Provinsi DIY c.q. Ka. Biro Administrasi Pembangunan Setda Provinsi DIY 2. Bupati Bantul c.q. Kepala Bappeda Kabupaten Bantul 3. Kepala Dinas Pendidikan, Pemuda dan Olahraga Propinsi DIY 4. Kepala Dinas Pendidikan, Pemuda dan Olahraga Kabupaten Bantul 6. Kepala SMK N 1 SEDAYU 												
<p>Dalam rangka pelaksanaan Skripsi kami mohon dengan hormat bantuan Saudara memberikan ijin untuk melaksanakan penelitian dengan judul "The Analysis Of E-Book Quality On Computer Skill And Information Management Course For Vocational High School", bagi mahasiswa Fakultas Teknik Universitas Negeri Yogyakarta tersebut di bawah ini:</p>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 30%;">Nama</th> <th style="width: 15%;">NIM</th> <th style="width: 30%;">Jurusan/Prodi</th> <th style="width: 20%;">Lokasi Penelitian</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Astri Yuliani</td> <td style="text-align: center;">08520244029</td> <td>Pend. Teknik Informatika - S1</td> <td>SMK N 1 Sedayu</td> </tr> </tbody> </table>	No.	Nama	NIM	Jurusan/Prodi	Lokasi Penelitian	1	Astri Yuliani	08520244029	Pend. Teknik Informatika - S1	SMK N 1 Sedayu		
No.	Nama	NIM	Jurusan/Prodi	Lokasi Penelitian								
1	Astri Yuliani	08520244029	Pend. Teknik Informatika - S1	SMK N 1 Sedayu								
<p>Dosen Pembimbing/Dosen Pengampu : Handaru Jati, Ph.D. NIP : 19740511 199903 1 002</p>												
<p>Adapun pelaksanaan penelitian dilakukan mulai tanggal 09 Nopember 2011 sampai dengan selesai.</p>												
<p>Demikian permohonan ini, atas bantuan dan kerjasama yang baik selama ini, kami mengucapkan terima kasih.</p>												
<p>Dekan, Wakil Dekan I.</p> <div style="text-align: center;">  Dedi Munadi NIP 19530310 197803 1 003 </div>												
<p>Tembusan: Ketua Jurusan Ketua Program Studi</p>												
08520244029 No. 641												



UNIVERSITAS NEGERI YOGYAKARTA
FAKULTAS TEKNIK

KHUSUS
UNTUK FAKULTAS

FRM/TKF/33-00
02 Juli 2007

PERMOHONAN IJIN SURVEY/OBSERVASI/PENELITIAN

2684.
275

Tujuan/Lokasi : SMK N 1 SEDAYU
Alamat : Jl Pos Kemusuk Argomulyo, Sedayu, Bantul
Kota/Kab. : DAERAH ISTIMEWA YOGYAKARTA
Peserta Survey/Observasi/Penelitian
Nama : Astri Yuliani
No. Mhs. : 08520244029
Jurusan : Pend. Teknik Informatika - S1
Peserta : : : : : : :
Nama Mata Kuliah
Skripsi
Judul/Permasalahan yang diteliti/diobservasi/disurvey :
The Analysis Of E-Book Quality On Computer Skill And Information Management
Course For Vocational High School

Mengetahui,
Dosen Pembimbing

Handaru Jati
Handaru Jati, Ph.D.
NIP 19740511 199903 1 002

Pemohon,

Astri Yuliani
Astri Yuliani
NIM 08520244029

CATATAN :
UNTUK PERMOHONAN PENELITIAN
DILAMPIRI HALAMAN JUDUL DAN PENGESAHAN PROPOSAL

No. Permohonan 641

PROPOSAL SKRIPSI

**THE ANALYSIS OF E-BOOK QUALITY ON COMPUTER SKILL AND
INFORMATION MANAGEMENT COURSE FOR VOCATIONAL HIGH
SCHOOL**

**Diajukan Kepada Fakultas Teknik Universitas Negeri Yogyakarta
Untuk Memenuhi Sebagian Persyaratan Guna Memperoleh
Gelara Sarjana Pendidikan**



OLEH :

ASTRI YULIANI

08520244029

PROGRAM STUDI PENDIDIKAN TEKNIK INFORMATIKA

FAKULTAS TEKNIK

UNIVERSITAS NEGERI YOGYAKARTA

2011

HALAMAN PENGESAHAN
PROPOSAL SKRIPSI

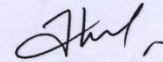
THE ANALYSIS OF E-BOOK QUALITY ON COMPUTER SKILL AND
INFORMATION MANAGEMENT COURSE FOR VOCATIONAL HIGH
SCHOOL

Oleh :
ASTRI YULIANI
08520244029

Telah disetujui dan disahkan oleh pembimbing untuk proses penelitian

Yogyakarta, Oktober 2011

Dosen Pembimbing,

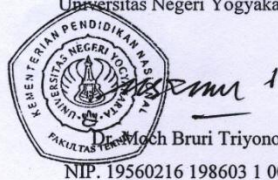


Handaru Jati, Ph. D.

NIP. 19740511 199903 1 002

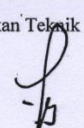
Mengetahui,

Dekan Fakultas Teknik
Universitas Negeri Yogyakarta



Moch Bruri Triyono
NIP. 19560216 198603 1 003

Ketua Jurusan
Pendidikan Teknik Elektronika



Masduki Zakaria, M. T.
NIP. 19640917 198901 1 001

The appendix of research license from SETDA DIY



PEMERINTAH PROVINSI DAERAH ISTIMEWA YOGYAKARTA
SEKRETARIAT DAERAH
 Kompleks Kepatihan, Danurejan, Telepon (0274) 562811 - 562814, 512243 (Hunting)
 YOGYAKARTA 55213

SURAT KETERANGAN / IJIN

Nomor : 070/7774/N/2011

Membaca Surat : Dekan Fak. Teknik UNY
 Tanggal Surat : 9 NOVEMBER 2011.

Nomor : 2684/JN34.15/PL/2011
 Perihal : Ijin Penelitian

- Mengingat :
1. Peraturan Pemerintah Nomor 41 Tahun 2006, tentang Perizinan bagi Perguruan Tinggi Asing, Lembaga Penelitian dan Pengembangan Asing, Badan Usaha Asing dan Orang Asing dalam Melakukan Kegiatan Penelitian dan Pengembangan di Indonesia;
 2. Peraturan Menteri Dalam Negeri Nomor 33 Tahun 2007, tentang Pedoman Penyelenggaraan Penelitian dan Pengembangan di Lingkungan Departemen Dalam Negeri dan Pemerintahan Daerah;
 3. Peraturan Gubernur Daerah Istimewa Yogyakarta Nomor 37 Tahun 2008, tentang Rincian Tugas dan Fungsi Satuan Organisasi di Lingkungan Sekretariat Daerah dan Sekretariat Dewan Perwakilan Rakyat Daerah;
 4. Peraturan Gubernur Daerah Istimewa Yogyakarta Nomor 18 Tahun 2009 tentang Pedoman Pelayanan Perijinan, Rekomendasi Pelaksanaan Survei, Penelitian, Pendataan, Pengembangan, Pengkajian, dan Studi Lapangan di Daerah Istimewa Yogyakarta.

DIIJINKAN untuk melakukan kegiatan survei/penelitian/pendataan/pengembangan/pengkajian/studi lapangan *) kepada :

Nama : ASTRI YULIANI NIP/NIM : 08520244029
 Alamat : Karangmalang Yogyakarta
 Judul : THE ANALYSIS OF E-BOOK QUALITY ON COMPUTER SKILL AND INFORMATION MANAGEMENT COURSE FOR VOCATIONAL HIGH SCHOOL

Lokasi : Kab. Bantul
 Waktu : 3 (tiga) Bulan. Mulai tanggal : 14 Nopember s/d 14 Februari 2012

Dengan ketentuan :

1. Menyerahkan surat keterangan/ijin survei/penelitian/pendataan/pengembangan/pengkajian/studi lapangan *) dari Pemerintah Provinsi DIY kepada Bupati/Walikota melalui institusi yang berwenang mengeluarkan ijin dimaksud;
2. Menyerahkan *softcopy* hasil penelitiannya kepada Gubernur Daerah Istimewa Yogyakarta melalui Biro Administrasi Pembangunan Setda Provinsi DIY dalam *compact disk (CD)* dan menunjukkan cetakan asli yang sudah disahkan dan dibubuhi cap institusi;
3. Ijin ini hanya dipergunakan untuk keperluan ilmiah, dan pemegang ijin wajib mentaati ketentuan yang berlaku di lokasi kegiatan;
4. Ijin penelitian dapat diperpanjang dengan mengajukan surat ini kembali sebelum berakhir waktunya;
5. Ijin yang diberikan dapat dibatalkan sewaktu-waktu apabila pemegang ijin ini tidak memenuhi ketentuan yang berlaku.

Dikeluarkan di : Yogyakarta
 Pada tanggal : 14 November 2011


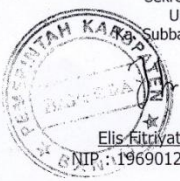


dr. ANTON PRIHADI SANTOSA, M.Kes
 Sekretaris Daerah
 Asisten Bidang Ekonomi dan Pembangunan


Tembusan disampaikan kepada Yth.

1. Gubernur Daerah Istimewa Yogyakarta (sebagai laporan);
2. Bupati Bantul, Cq. Bappeda
3. Ka. Dinas Pendidikan Pemuda dan Olahraga Provinsi DIY
4. Dekan Fak. Teknik UNY
5. Yang Bersangkutan

The appendix of research license from BAPPEDA DIY

 <p>PEMERINTAH KABUPATEN BANTUL BADAN PERENCANAAN PEMBANGUNAN DAERAH (B A P P E D A) Jln. Robert Wolter Monginsidi No. 1 Bantul 55711, Telp. 367533, Fax. (0274) 367796 Website: bappeda.bantulkab.go.id Webmail: bappeda@bantulkab.go.id</p>	
SURAT KETERANGAN/IZIN Nomor : 070 /2004	
Menunjuk Surat	Dari : Sekretaris Daerah Prop Nomor : 070/7774/V/2011 Diy Tanggal : 14 Nopember 2011 Perihal : Ijin Penelitian
Mengingat	a. Peraturan Daerah Nomor 17 Tahun 2007 tentang Pembentukan Organisasi Lembaga Teknis Daerah Di Lingkungan Pemerintah Kabupaten Bantul sebagaimana telah diubah dengan Peraturan Daerah Kabupaten Bantul Nomor 16 Tahun 2009 tentang Perubahan Atas Peraturan Daerah Nomor 17 Tahun 2007 tentang Pembentukan Organisasi Lembaga Teknis Daerah Di Lingkungan Pemerintah Kabupaten Bantul; b. Peraturan Gubernur Daerah Istimewa Yogyakarta Nomor 18 Tahun 2009 tentang Pedoman Pelayanan Perijinan, Rekomendasi Pelaksanaan Survei, Penelitian, Pengembangan, Pengkajian, dan Studi Lapangan di Daerah Istimewa Yogyakarta; c. Peraturan Bupati Bantul Nomor 17 Tahun 2011 tentang Ijin Kuliah Kerja Nyata (KKN) dan Praktek Lapangan (PL) Perguruan Tinggi di Kabupaten Bantul.
Diizinkan kepada	Nama : ASTRI YULIANI P.Tinggi/Alamat : UNY, Karangmalang Yogyakarta NIP/NIM/No. KTP : 08520244029 Tema/Judul Kegiatan : THE ANALYSIS OF E-BOOK QUALITY ON COMPUTER SKILL AND INFORMATION MANAGEMENT COURSE FOR VOCATIONAL HIGH SCHOOL
Lokasi	SMK Negeri 1 Sedayu
Waktu	Mulai Tanggal : 14 Nopember 2011 s/d 14 Februari 2012
Jumlah Personil	-
Dengan ketentuan sebagai berikut : 1. Dalam melaksanakan kegiatan tersebut harus selalu berkoordinasi (menyampaikan maksud dan tujuan) dengan institusi Pemerintah Desa setempat serta dinas atau instansi terkait untuk mendapatkan petunjuk seperlunya; 2. Wajib menjaga ketertiban dan mematuhi peraturan perundangan yang berlaku; 3. Izin hanya digunakan untuk kegiatan sesuai izin yang diberikan; 4. Pemegang izin wajib melaporkan pelaksanaan kegiatan bentuk <i>softcopy</i> (CD) dan <i>hardcopy</i> kepada Pemerintah Kabupaten Bantul c.q Bappeda Kabupaten Bantul setelah selesai melaksanakan kegiatan; 5. Izin dapat dibatalkan sewaktu-waktu apabila tidak memenuhi ketentuan tersebut di atas; 6. Memenuhi ketentuan, etika dan norma yang berlaku di lokasi kegiatan; dan 7. Izin ini tidak boleh disalahgunakan untuk tujuan tertentu yang dapat mengganggu ketertiban umum dan kestabilan pemerintah.	
Dikeluarkan di : Bantul Pada tanggal : 14 Nop. 2011 A.n. Kepala Sekretaris, Ub. Subbag Umum	
 Elis Fitriyati, SIP., MPA. NIP. : 19690129 199503 2.003	
Tembusan disampaikan kepada Yth. 1. Bupati Bantul 2. Ka. Kantor Kesbangpolinmas Kab. Bantul 3. Ka. Dinas Dikmenof Kab. Bantul 4. Ka. SMK Negeri 1 Sedayu 5. Yang bersangkutan	

The appendix of research license from SMK N 1 Sedayu




PEMERINTAH KABUPATEN BANTUL
DINAS PENDIDIKAN MENENGAH DAN NON FORMAL
SMK 1 SEDAYU
Alamat : Argomulyo, Pos Kemusuk, Yogyakarta. Telp./ Fax. (0274) 798084
Kode Pos 55753

SURAT IJIN PENELITIAN
 Nomor : 53/ / I 13.2/SMK.1/PL/2011

Yang bertanda tangan di bawah ini , Kepala SMK Negeri 1 Sedayu memberi ijin untuk melaksanakan penelitian kepada :


Nama : ASTRI YULIANI
 N I M : 08520244029
 Jurusan/ Prodi : Pend. Teknik Informatika-S1
 Perguruan Tinggi : Universitas Negeri Yogyakarta
 Sesuai Surat dari BAPPEDA Kab. Bantul Nomor 070/2004 Tanggal 14 Nopember 2011
 Judul : THE ANALYSIS OF E-BOKK QUALITY ON COMPUTER SKILL AND INFORMATION MANAGEMENT COURSE FOR VOCATIONAL HIGH SCHOOL
 Waktu : 14 Nopember 2011 s/d 14 Februari 2012

Demikian surat ijin ini dibuat untuk dapat dipergunakan semestinya.

Sedayu, 5 Nopember 2011
 Kepala Sekolah

ANDI PRIMERIANANTO, M.Pd.
 NIP. 196112271986031011

Tembusan :

1. Wks. Urs. Kurikulum
2. K3/ Guru yang bersangkutan
3. Arsip.

Guru KKPI

Paulina Hendrajanti, S.Pd.
 NIP. 197106162005012004

c:\data\ijin penelitian

The appendix of official statement from SMK N 1 Sedayu



PEMERINTAH KABUPATEN BANTUL
DINAS PENDIDIKAN MENENGAH DAN NON FORMAL

SMK 1 SEDAYU

Alamat : Argomulyo, Pos Kemusuk, Yogyakarta Telp./ Fax. (0274) 798084
Kode Pos 55753

SURAT KETERANGAN

Nomor : 540 /I 13.2/SMK 1/PL/2011

Yang bertanda tangan dibawah ini, Kepala SMK Negeri 1 Sedayu menerangkan kepada :

Nama : **ASTRI YULIANI**

No. NIM / Mhs : 08520244029 Mahasiswa : UNY YK

Jurusan/Prodi : Pendidikan Teknik Informatika – S1

Telah mengadakan penelitian pada SMK Negeri 1 Sedayu dalam rangka penyusunan

Tugas Akhir Skripsi dengan judul :

**THE ANALYSIS OF E-BOOK QUALITY ON COMPUTER SKILL AND
INFORMATION MANAGEMENT COURSE FOR VOCATIONAL HIGH
SCHOOL.**

Waktu : Mulai Tanggal **05 Desember 2011** s/d **17 Desember 2011**

Demikian surat keterangan ini dibuat untuk dapat dipergunakan semestinya.



The appendix of assessor English Language Application

Yogyakarta, 19 Desember 2011

Yth.

Ibu Nunik Sugesti
Di Fakultas Bahasa dan Seni
Universitas Negeri Yogyakarta

Sehubungan dengan ijin penelitian nomor 070/7774/V/2011 dari SETDA provinsi Yogyakarta tanggal 14 November 2011 dengan judul skripsi **"The Analysis of Ebook Quality on Computer Skill and Information Management Course for Vocational High School"**.

Bersama ini saya, **Astri Yuliani** dari program studi **Pendidikan Teknik Informatika** mengajukan permohonan untuk mengoreksi dan memberi penilaian terhadap penggunaan bahasa Inggris pada laporan penelitian skripsi saya.

Demikian permohonan ini saya buat, semoga ditindaklanjuti sebagaimana mestinya. Atas perhatian yang diberikan, saya ucapkan terima kasih.

Pembimbing Skripsi,



Handaru Jati, Ph. D
NIP.19740511 199903 1 002

Peneliti,



Astri Yuliani
NIM. 08520244029

Mengetahui,

Ketua Jurusan
Pendidikan Teknik Elektronika



Mohammad Munir, M. Pd.
NIP. 19630512 198901 1 001

Ketua Program Studi
Pendidikan Teknik Informatika



Ratna Wardani, M. T.
NIP. 19701218 200501 2 001

Yth. Ibu Nunik,
mohon ditindaklanjuti
permohonan ini.
19/12
Samsul M.



Nunik Sugesti, M. Hum.
NIP. 19710616 200604 2 001

The appendix of result and interview guidelines

Pedoman dan Hasil Wawancara

Nama Narasumber : Isbani, S.Pd.


Hari / Tanggal / Jam : Selasa / 18 Oktober 2021 / 12:36

Tempat Wawancara : SMK N 1 Sedayu

Pertanyaan	Jawaban
1. Bagaimana cara sekolah mengintegrasikan teknologi, dalam hal ini ebook?	menggunakan modul kkp1, untuk ebook belum.
2. Apakah kendala yang dihadapi sekolah dalam mengintegrasikan teknologi, dalam hal ini ebook?	untuk ebook kkp1 sendiri belum ada di SMK N 1 Sedayu.
3. Siapa yang menginginkan ebook?	guru, siswa
4. Siapa yang menggunakan ebook?	guru, siswa
5. Keuntungan apa yang diperoleh dengan pengadaan ebook?	Harapannya memudahkan siswa dalam belajar, khususnya kkp1
6. Apakah sekolah membutuhkan ebook sebagai media	Butuh./sekolah membutuhkan ebook sebagai media pengintegrasian

pengintegrasian teknologi?	teknologi.
7. Bagaimana model ebook yang diinginkan untuk meningkatkan kualitas proses belajar mengajar siswa?	E-book yang mudah diakses dan digunakan
8. Adakah batasan untuk ebook yang dibuat?	ebook yang menarik minat siswa dalam belajar, misalnya : penggunaan bahasa , gambar yang relevan .

Narasumber,


Isbani, S. Pd.
NIP. 19680706200701 1 029

Sedayu, 18 Oktober 2011

Peneliti,


Astri Yuliani
NIM. 08520244029

The appendix of *Usability* instrument

The Analysis of Ebook Quality on Computer Skill
and Information Management Course for Vocational High School



Ebook adalah istilah untuk mendeskripsikan buku yang ditampilkan secara digital (komputer). (Anuradha, 2005)

Ebook adalah peralatan untuk menampilkan dokumen elektronik. (Birgit et. al. 2003)

Ebook adalah adalah sebuah media digital untuk komunikasi dan bertukar informasi (Kumar, 2009)

Ebook merupakan sebuah aplikasi software yang berisi informasi, dibutuhkan perangkat keras untuk dapat membaca isi ebook, tersedia *online* dan selain itu harus *user friendly* ketika digunakan dan dapat digunakan oleh banyak orang (Yuliani, 2011)

Setelah menggunakan ebook, silahkan mengisi angket dengan tanda (V) yang menurut anda sesuai dengan apa yang anda rasakan

Untuk nomor 1 - 19 , berikut skala penilaiannya :

1 = Sangat Tidak Setuju

4 = Setuju

2 = Tidak Setuju

5 = Sangat Setuju

3 = Netral

Nama :
Gatot Bayu S.

KUESIONER UNTUK *USABILITY* EBOOK UNTUK RESPONDEN

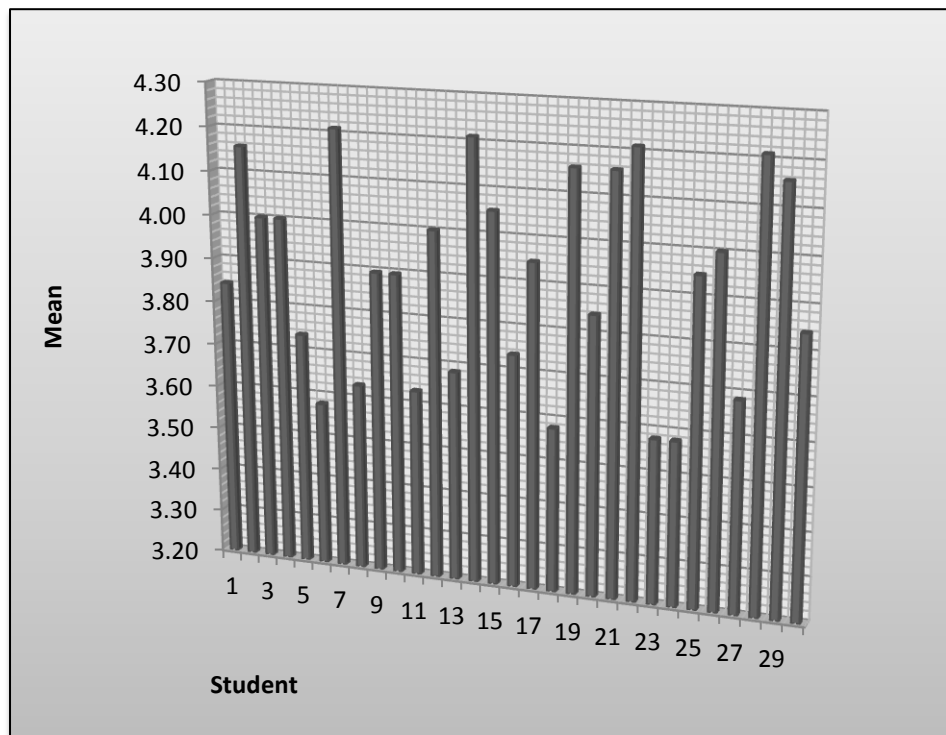
(TTD)

No	Pernyataan	Poin				
		1	2	3	4	5
1.	Secara keseluruhan, saya puas menggunakan ebook ini karena mudah				✓	
2.	<i>Simple</i> (sederhana) untuk menggunakan ebook ini				✓	
3.	Dengan menggunakan ebook ini, saya dapat menyelesaikan tugas dengan efektif				✓	
4.	Dengan menggunakan ebook ini, saya dapat memenuhi tugas dengan cepat					✓
5.	Dengan menggunakan ebook ini, saya dapat memenuhi tugas dengan efisien				✓	
6.	Saya merasa <i>comfort</i> (nyaman) menggunakan ebook ini.				✓	
7.	Mudah untuk belajar dengan ebook ini			✓		
8.	Dengan menggunakan ebook ini saya menjadi lebih produktif				✓	
9.	Ebook ini memberikan " <i>Error Message</i> " (peringatan kesalahan) dengan jelas, dan membantu saya menyelesaikan " <i>Error</i> " yang ada			✓		
10.	Ketika saya melakukan kesalahan dalam menggunakan ebook ini, saya dapat mempelajarinya secara mudah dan cepat				✓	
11.	Informasi pada ebook ini, disediakan dengan jelas				✓	
12.	Mudah untuk menemukan informasi yang saya butuhkan				✓	
13.	Informasi yang disediakan mudah untuk dipahami			✓		
14.	Informasi pada ebook ini sangat efektif, untuk membantu mengerjakan tugas				✓	
15.	Manajemen informasi pada " <i>Screen</i> " (layar) jelas		✓			
16.	" <i>Interface</i> " (antarmuka) pada layar ini sangat menyenangkan		✓			
17.	Saya suka menggunakan antarmuka pada ebook ini		✓			
18.	Ebook ini mempunyai semua fungsi dan kapabilitas, saya berharap mempunyai Ebook ini.				✓	
19.	Secara keseluruhan, saya puas dengan ebook ini				✓	

The appendix of the result of *Usability* instrument

Result of student interpretation for usability of ebook																						
No	Responden Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Total	Mean
1	Aan Hisbullah	4	3	4	4	4	5	4	4	3	3	4	5	4	4	4	3	4	3	4	73	3.84
2	Aditya Wahyu Saputra	4	4	4	4	4	5	4	4	4	5	5	4	5	4	5	4	3	3	4	79	4.16
3	Aldila Septiana Putri	4	4	5	4	4	4	4	4	4	4	3	4	4	4	4	4	3	5	4	76	4.00
4	Andreas Setiawan Dhany	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	76	4.00
5	Arfan A'an Sanubari	4	4	5	4	4	4	3	3	3	3	4	4	4	3	3	3	3	5	5	71	3.74
6	Cherry Hutama	4	4	4	5	4	4	3	4	3	4	4	4	3	4	2	2	2	4	4	68	3.58
7	Dias Pjariafi	4	4	4	4	4	5	5	4	5	4	4	4	5	4	5	4	4	3	4	80	4.21
8	Edwin Satrio Wicaksono	4	4	4	3	4	4	4	3	3	4	4	3	4	3	4	3	3	4	4	69	3.63
9	Esti Prihatin	4	3	4	4	4	3	4	4	5	4	4	4	3	4	4	3	3	5	5	74	3.89
10	Fadhillah Septiana Riyanta	4	4	4	3	3	3	4	4	3	4	4	5	4	4	4	4	4	5	4	74	3.89
11	Fatma Rahmanto	4	4	4	3	4	4	4	3	3	4	4	3	4	3	4	3	3	4	4	69	3.63
12	Idha Wahyuningsih	4	4	3	5	4	4	4	4	3	5	4	4	5	4	4	5	3	3	4	76	4.00
13	Ika Nur Setyaningsih	4	4	3	3	3	4	4	4	3	4	4	4	4	4	4	3	4	3	4	70	3.68
14	Indah Pratiwi	4	4	4	3	3	4	5	4	3	4	4	5	5	4	5	4	5	5	5	80	4.21
15	Kartika Oktaviani	4	4	3	3	4	4	4	4	5	4	5	4	4	5	5	4	3	4	4	77	4.05
16	Luthfi Ahmad Kurniawan	3	4	3	2	4	4	4	3	5	3	5	5	5	4	2	3	3	5	4	71	3.74
17	Olga Andi Saputra	4	5	4	4	3	4	5	3	4	3	5	4	5	4	3	4	3	5	3	75	3.95
18	Priyo Gunarto	4	4	4	5	4	4	3	4	3	4	4	4	3	4	2	2	2	4	4	68	3.58
19	Ryan Galih Anggita	4	4	4	4	4	5	5	4	4	5	4	4	4	4	4	3	4	4	5	79	4.16
20	Shukhainah Nur aini	4	4	4	4	4	5	3	3	4	4	3	4	4	3	4	4	4	4	4	73	3.84
21	Sri Lestari	4	4	5	4	5	4	4	4	3	4	4	5	5	4	4	4	4	4	4	79	4.16
22	Stefanno Anandita Rodana	4	4	4	4	4	5	5	5	4	4	4	4	4	4	4	4	4	5	4	80	4.21
23	Stepanus Ari Setyawan	4	4	4	5	4	4	3	4	3	4	4	4	3	4	2	2	2	4	4	68	3.58
24	Tita Kusmawati	3	4	4	3	4	4	4	5	4	4	4	4	2	4	4	2	2	2	5	68	3.58
25	Vita Wahyuning Tyas	4	5	4	4	4	4	4	3	3	3	4	5	5	4	5	4	4	3	3	75	3.95
26	Widiyawanti	4	4	5	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	76	4.00
27	Woro Hestningsih	4	4	3	3	3	4	4	3	4	4	4	3	4	3	4	4	4	4	4	70	3.68
28	Yoga Cahyanto Putra	4	4	4	4	4	5	5	4	5	4	4	4	5	4	5	4	4	3	4	80	4.21
29	Yosua Adikurniawan	4	4	4	5	4	4	3	4	3	4	4	4	5	5	5	5	4	4	4	79	4.16
30	Yuli Marwanto	4	4	4	4	4	4	3	4	3	4	4	4	5	4	4	4	3	3	4	73	3.84
Total		118	120	119	115	116	124	120	112	111	118	122	124	124	117	117	105	102	119	123	2226	117.16
	Mean	3.93	4.00	3.97	3.83	3.87	4.13	4.00	3.73	3.70	3.93	4.07	4.13	4.13	3.90	3.90	3.50	3.40	3.97	4.10	74.20	3.91

The appendix of *Usability* instrument graph



The appendix of statistic and descriptive analysis of *Usability*

Case Processing Summary

		N	%
Cases	Valid	30	100.0
	Excluded ^a	0	.0
	Total	30	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

Cronbach's Alpha	N of Items
.609	19

Item Statistics

	Mean	Std. Deviation	N
numb.1	3.93	.254	30
numb.2	4.00	.371	30
numb.3	3.97	.556	30
numb.4	3.83	.747	30
numb.5	3.87	.434	30
numb.6	4.13	.571	30

numb.7	4.00	.643	30
numb.8	3.73	.583	30
numb.9	3.70	.750	30
numb.10	3.93	.521	30
numb.11	4.07	.450	30
numb.12	4.13	.571	30
numb.13	4.13	.776	30
numb.14	3.90	.481	30
numb.15	3.90	.923	30
numb.16	3.50	.820	30
numb.17	3.40	.770	30
numb.18	3.97	.809	30
numb.19	4.10	.481	30

Scale Statistics

Mean	Variance	Std. Deviation	N of Items
74.20	17.821	4.221	19

Descriptive Statistics

	N	Range	Minimum	Maximum	Sum	Mean
numb.1	30	1	3	4	118	3.93
numb.2	30	2	3	5	120	4.00
numb.3	30	2	3	5	119	3.97
numb.4	30	3	2	5	115	3.83
numb.5	30	2	3	5	116	3.87
numb.6	30	2	3	5	124	4.13
numb.7	30	2	3	5	120	4.00
numb.8	30	2	3	5	112	3.73
numb.9	30	2	3	5	111	3.70
numb.10	30	2	3	5	118	3.93
numb.11	30	2	3	5	122	4.07
numb.12	30	2	3	5	124	4.13
numb.13	30	3	2	5	124	4.13

numb.14	30	2	3	5	117	3.90
numb.15	30	3	2	5	117	3.90
numb.16	30	3	2	5	105	3.50
numb.17	30	3	2	5	102	3.40
numb.18	30	3	2	5	119	3.97
numb.19	30	2	3	5	123	4.10
Valid N (listwise)	30					

Descriptive Statistics

	Std. Deviation	Variance
numb.1	.254	.064
numb.2	.371	.138
numb.3	.556	.309
numb.4	.747	.557
numb.5	.434	.189
numb.6	.571	.326
numb.7	.643	.414
numb.8	.583	.340
numb.9	.750	.562
numb.10	.521	.271
numb.11	.450	.202
numb.12	.571	.326

numb.13	.776	.602
numb.14	.481	.231
numb.15	.923	.852
numb.16	.820	.672
numb.17	.770	.593
numb.18	.809	.654
numb.19	.481	.231

The appendix of *Availability* criteria

Page 1 of 1

Sistem Operasi

Sistem operasi merupakan program yang bertindak sebagai perantara antara user dengan perangkat keras komputer.

Sistem operasi sendiri biasa disebut *Resource Allocator* (mengatur dan mengalokasikan sumber daya sistem komputer), *Program Control* (melakukan kontrol eksekusi dari program user dan operasi input output) dan *Kernel* (program yang berjalan sepanjang waktu selain program aplikasi).

Sistem operasi tidak hanya sekedar menjalankan aplikasi, namun juga memiliki kriteria sebagai berikut :

- a. *Robustness*, toleransi terhadap eror
- b. *Scalability*, mudah menerima penambahan resource
- c. *Extensibility*, adaptive terhadap teknologi terbaru
- d. *Throughput*, dapat meminimalisir penggunaan waktu
- e. *Portability*, dapat digunakan pada banyak platform hardware
- f. *Security*, dapat mencegah akses yang tidak berhak

Sistem operasi yang pertama dipublikasikan pada tahun 1957 disebut BESYS dikembangkan oleh BELL Lab. Kemudian tahun 1964 IBM mempublikasikan OS/360. Pada 1965 BELL Lab, MIT dan General Electric mempublikasikan MULTICS. Ken Thompson (pekerja BELL Lab) pada tahun 1972 mempublikasikan UNIX. Tahun 1981 MS-DOS dipublikasikan oleh MICROSOFT. Era 1990 dan seterusnya dikembangkan system operasi untuk *small device*, seperti Symbian OS.

1) ___. 2010. *Rekayasa perangkat lunak materi Sistem Operasi*. Tersedia di http://www.4shared.com/file/wnG05JVZ/072DKK02_Melakukan_instalasi_s.htm di unduh juli 2011.



mk:@MSITStore:G:\sistem%20operasi%20berbasis%20GUI%20untuk%20SMK%20pad... 12/22/2011

The appendix of Official Statement from engineering faculty

**KEPUTUSAN DEKAN
FAKULTAS TEKNIK
UNIVERSITAS NEGERI YOGYAKARTA.
NOMOR : 05/PTI/I/2012
TENTANG
PENGANGKATAN PANITIA PENGUJI TUGAS AKHIR SKRIPSI
BAGI
MAHASISWA F.T. UNY
ATAS NAMA : Astri Yuliani**

DEKAN FAKULTAS TEKNIK UNIVERSITAS NEGERI YOGYAKARTA

- Menimbang** : 1. Bahwa sehubungan dengan telah dipenuhinya persyaratan untuk mengikuti ujian Skripsi bagi mahasiswa F.T. UNIVERSITAS NEGERI YOGYAKARTA, dipandang perlu untuk dilaksanakan ujian Skripsi dengan tertib dan lancar serta penentuan hasilnya dapat dinilai secara obyektif.
2. Bahwa untuk keperluan dimaksud dipandang perlu mengangkat Panitia Penguji Tugas Akhir Skripsi dengan Keputusan Dekan.
- Mengingat** : 1. Undang-Undang RI : Nomor 20 Tahun 2003
2. Peraturan Pemerintah RI : Nomor 60 Tahun 1999
3. Keputusan Presiden RI : Nomor 93 Tahun 1999 ; Nomor 305 M Tahun 1999
4. Keputusan Menteri Pendidikan dan Kebudayaan RI Nomor 0464/O/1992 ; Nomor 274/O/1999
5. Keputusan Menteri Pendidikan Nasional RI : Nomor 003/0/2001
6. Keputusan Rektor UNY : Nomor 1160/UN34/KP/2011.
- Mengingat pula** : Keputusan Dekan F.T. UNIVERSITAS NEGERI YOGYAKARTA Nomor 042 Tahun 1989

MEMUTUSKAN

- Menetapkan
Pertama** : Mengangkat Panitia Penguji Skripsi bagi mahasiswa F.T. UNIVERSITAS NEGERI YOGYAKARTA yang susunan personalianya sebagai berikut :
1. Ketua / Pembimbing I : Handaru Jati, Ph.D.
2. Sekretaris : Dr. Ratna Wardani
3. Penguji Utama I : Herman Dwi Surjono, Ph.D
- Bagi mahasiswa :
Nama/No. Mahasiswa : Astri Yuliani / 08520244029
Jurusan/Prodi : Pendidikan Teknik Elektronika/Pendidikan Teknik Informatika
- Kedua** : Ujian dilaksanakan pada hari Senin, tanggal 16 Januari 2012 mulai pukul 09.00 sampai dengan selesai, bertempat di ruang Sidang.
- Ketiga** : Segala sesuatu akan diubah dan dibetulkan sebagaimana mestinya apabila dikemudian hari ternyata terdapat kekeliruan dalam Keputusan ini.

Ditetapkan : di Yogyakarta
Pada tanggal : 9 Januari 2012



Tembusan Yth :
1. Pembantu Dekan II FT UNY
2. Ketua Jurusan Pendidikan Teknik Elektronika
3. Kasub. Bag. Pendidikan FT UNY
4. Kepala Media FT UNY
5. Yang bersangkutan.